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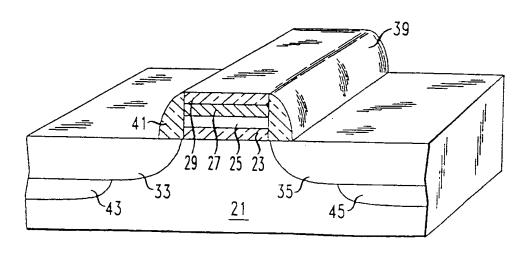
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- (54) Dual gate formation
- (57) A structure and method for fabrication of an integrated circuit having adjoining n° and p° gates (25–31) is disclosed. The adjoining n° and p° gates are covered by a titanium nitride layer (27). The titanium nitride layer is covered by a protective layer (29), illustratively made from PETEOS and by flanking spacers (not shown in
- FIG 2) The protective layers help to prevent oxidation of the titanium nitride layer. (Oxidation of the titanium nitride layer would destroy its shunting capability.) Also disclosed is a heating step which simultaneously activates source/drain implants as well as flowing an overlying dielectric.

FIG. 4



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EUROPEAN SEARCH REPORT

Application Number EP 95 30 8754

	DOCUMENTS CONS	DERED TO BE RELEVAN	Γ	<u></u>
Category	Citation of document with i	ndication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CL6)
A	PATENT ABSTRACTS OF vol. 11. no. 292 (E & JP-A-62 092 360 (* the whole document	-543) 19 September 1987 TOSHIBA) 27 April 1987	1-11	H01L29/423 H01L21/28
	US-A-4 890 141 (T.E * column 2; figure	TANG ET AL.) 8 *	1-11	
				TECHNICAL FIELDS SEARCHED (Int.Cl.6) HOIL
	D			
	Place of search	Branch up fee all cluims		
	BERLIN	Date of completion of the warch 20 March 1996	J.,	Examples:
X : parti Y : parti docu A : techi O : non-	CUISTY OF CITED DOCUMER cuistry relevant if taken alone cuistry relevant if combined with ano ment of the same category hological background written disclosure mediate document	15 I : theory or principle E : earlier patent doc	underlying the ument, but public te the application rother reasons	ished on, or

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CLAIMS INCURRING FEES
The present European patent application comprised at the time of filing more than ten claims
All claims lives have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
Only part of the claims lees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims lees have been paid.
namely claims
No daims fees have been paid within the prescribed time timit. The present European search report has been drawn up for the first len daims.
LACK OF UNITY OF INVENTION
The Search Division considers that the present European patent application does not comply with the requirement of unity of
invention and relates to several inventions or groups of inventions, namely.
1. Claims 1-11:
Gate structure consisting of p and n doped polysilicon, conductive layer and
a patterned dielectric layer and method therefor.
2. Clai: 12,13:
Method for forming source and drain regions in substrate.
All further search lees have been paid within the fixed time limit. The present European search report has been drawn up for all claims
Only part of the further search fees have been paid within the fixed time firmit. The present European search
respects of which search tees have been paid.
namely daims
None of the further search fees has been paid within the fixed time limit. The present European search report
None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.
namely claims 1-11

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